pa1030: Box multiplication of linear binomials (v4)

Example

Use the box method to multiply $(6x + 3)$ and $(2x + 4)$.

*	6x	3
2x	$12x^2$	6x
4	24x	12

$12x^2 + 6x + 24x + 12$

Combine like terms.

$12x^2 + 30x + 12$

ANSWER: $12x^2 + 30x + 12$

Question 1

Use the box method to multiply $(9x + 4)$ and $(8x + 7)$.

*	9x	4
8x	$72x^2$	32x
7	63x	28

ANSWER: $72x^2 + 95x + 28$

Question 2

Use the box method to multiply $(8x - 5)$ and $(4x + 6)$.

*	8x	−5
4x	$32x^2$	−20x
6	48x	−30

ANSWER: $32x^2 + 28x - 30$

Question 3

Use the box method to multiply $(7x - 9)$ and $(-3x - 2)$.

*	7x	−9
−3x	$-21x^2$	27x
−2	−14x	18

ANSWER: $-21x^2 + 13x + 18$